```
> restart;
  with(linalg);
  for w1 from 1 to 6 do
      for w2 from (w1+1) to 7 do
          for w3 from (w2+1) to 8 do
              for w4 from (w3+1) to 9 do
                  for w5 from (w4+1) to 10 do
                      for w6 from (w5+1) to 11 do
                          for w7 from (w6+1) to 12 do
                              for w8 from (w7+1) to 13 do
                                  for w9 from (w8+1) to 14 do
                                      w := [w1, w2, w3, w4, w5, w6, w7, w8, w9]:
                                      A := Matrix(w[9]·3):
                                      A[1, w[9]·3] := 1:
                                      for i from 2 to (w[9]·3) do
                                          A[i, i-1] := 1:
                                      od;
                                      A[3·w[3]+1, 3·w[1]] := 1:
                                      A[3·w[3]+1, 3·w[5]] := 1:
                                      A[3·w[6]+1, 3·w[4]] := 1:
                                      A[3·w[6]+1, 3·w[8]] := 1:
                                      A[1, 3·w[2]] := 1:
                                      A[1, 3·w[7]] := 1:
                                      f := charpoly(A, x) mod 2:
                                      if (Divide(f, (x^3+1)^3,'g') mod 2) then
                                          g := algsubs(x^3=x, g):
                                          if (Primitive(g) mod 2) then
                                              printf("%d, %d, %d, %d, %d, %d, %d, %d,
    %d\n", w[1], w[2], w[3], w[4], w[5], w[6], w[7], w[8], w[9]);
                                          fi;
                                      fi;
                                  od;
                              od;
                          od;
                      od;
                  od;
              od;
          od;
      od;
  od;
```